

105

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: LARRY GOLD; NEBOJSA JANJIC; STEVEN RINGQUIST;
NIKOS PAGRATIS; PENELOPE J. TOOTHMAN
- (ii) TITLE OF THE INVENTION: HIGH AFFINITY OLIGONUCLEOTIDE
LIGANDS TO TRANSFORMING GROWTH
FACTOR β (TGFB), PLATELET-DERIVED
GROWTH FACTOR (PDGF) AND HUMAN
KEROTINOCYTE GROWTH FACTOR (hKGF)

(iii) NUMBER OF SEQUENCES: 304

(iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Swanson & Bratschun, L.L.C.
- (B) STREET: 8400 E. Prentice Avenue, Suite 200
- (C) CITY: Englewood
- (D) STATE: Colorado
- (E) COUNTRY: USA
- (F) ZIP: 80111

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
- (B) COMPUTER: IBM compatible
- (C) OPERATING SYSTEM: MS-DOS
- (D) SOFTWARE: WordPerfect 6.1

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: US96/
- (B) FILING DATE:
- (C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/458,423
- (B) FILING DATE: 02-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/458,424
- (B) FILING DATE: 02-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/465,594
- (B) FILING DATE: 05-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/465,591
- (B) FILING DATE: 05-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/479,725
- (B) FILING DATE: 07-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/479,783
- (B) FILING DATE: 07-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/618,693
- (B) FILING DATE: 20-MARCH-1996

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Barry J. Swanson
- (B) REGISTRATION NUMBER: 33,215
- (C) REFERENCE/DOCKET NUMBER:

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (303) 793-3333

106

(B, TELEFAX (303) 793-3433

(2) INFORMATION FOR SEQUENCE ID NO: 1:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GGGGGAGAAC GCGGAUCCNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN	50
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNAAGCUUCG CUCUAGAUCU	100
CCCUUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 2:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 93 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGGGGAGAAC GCGGAUCCNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN	50
NNNNNNNNNA GCUUCGCUCU AGAUCUCCU UUAGUGAGGG UUA	93

(2) INFORMATION FOR SEQUENCE ID NO: 3:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 123 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CCCCUCCAUG GAGGAGGGGG GAGGGGGUGG UUCGGAGAAA GCUUCGCUCU	100
GAAUCUCCU UUAGUGAGGG UUA	123

(2) INFORMATION FOR SEQUENCE ID NO: 4:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GGGAGAACGC GGATCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN	50
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN AAGCTTCGCT CTAGA	95

(2) INFORMATION FOR SEQUENCE ID NO: 5:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 GGGGAGACGC GGATCCCGG NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 NNNNNNAAGC TTCGCTCTAG A 50
 71

(2) INFORMATION FOR SEQUENCE ID NO: 6:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 95 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 GGGGAGAGAAC GCGGATCCTG TCTCCACCGC CGATACTGGG GTTCCTGGGG 50
 CCCCTCCATG GAGGAGGGGG TGGTTCGGAG AAAGCTTCGC TCTAG 95

(2) INFORMATION FOR SEQUENCE ID NO: 7:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 35 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 TAATACGACT CACTATAGGG GGAGTCTGCG GATCC 35

(2) INFORMATION FOR SEQUENCE ID NO: 8:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 35 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 TAATACGACT CACTATAGGG GGAGAACGCG GATCC 35

(2) INFORMATION FOR SEQUENCE ID NO: 9:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 35 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
 TAACCTCAC TAAAGGGAGA TCTAGACGA AGCTT 35

(2) INFORMATION FOR SEQUENCE ID NO: 10:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 50 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

CATTTAGGTG ACACTATAGA AATGTCATCA CTASTAAGCT TTGCTOTAGA

50

(2) INFORMATION FOR SEQUENCE ID NO: 11:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 33 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GGATCCCGGA GCTCCCTATA GTGAGTCGTA TTA

33

(2) INFORMATION FOR SEQUENCE ID NO: 12:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGGGGAGAAC GCGGAUCCGA GCAAUCCAG GCGCAUAGCU UCCGAGUAGA
CAGGAGGGAG GGGUGGAUGU GCGGUCUACU CGGUGUCGUG AAGCUUCGCU
CUAGAUCUCC CUUAGUGAG GGUUA

50

100

125

(2) INFORMATION FOR SEQUENCE ID NO: 13:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GGGGGAGAAC GCGGAUCCGA GCAACCCAG GCGCAUAGCU UCCGAGUAGA
CAGGAGGGAG GGGUGGAUGU GCGGUCUACU CGGUGUCGUG AAGCUUCGCU
CUAGAUCUCC CUUAGUGAG GGUUA

50

100

125

(2) INFORMATION FOR SEQUENCE ID NO: 14:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGGGGAGAAC GCGGAUCCGA GCAACCCAG GCGCAUAGCU UCCGAGUAGA

50

109

CAGGCGGGAG GGGUGGAUGU GGGGUCUACU CGGAGUCGUG AAGCUUCGCU 100
CUAGAUCUCC CUUUAGUGAG GGUUA 125

(2) INFORMATION FOR SEQUENCE ID NO: 15:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GGGGGAGAAC GCGGAUCCGG CAACCCAGG CGCAUAGCUU CCGAGUAGAC 50
AGGCGGGAGG GGUGGAUGUG GCGUCACGAG GAAGCUUCGC UCUAGAUCUC 100
CCUUUAGUGA GGGUUA 116

(2) INFORMATION FOR SEQUENCE ID NO: 16:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 123 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGGGGAGAAC GCGGATCCGC AAUCCAGGC GCAUAGCUUC CGAGUAGACA 50
GGAGGGAGGG GUGGAUGUGG CGUCUACUCG GCGUCGUGAA GCUUCGCUCU 100
AGAUCUCCCU UUAGUGAGGG UUA 123

(2) INFORMATION FOR SEQUENCE ID NO: 17:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 117 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GGGGGAGAAC GCGGAUCCGA GCAUCCAG GCGCAUAGCU UCCGAGUAGA 50
CAGGAGGGAG GGGUGGAUGU GGGUCUCGA GGAAGCUUCG CUCUAGAUCU 100
CCUUUAGUG AGGGUUA 117

(2) INFORMATION FOR SEQUENCE ID NO: 18:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 123 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

110

(D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGGGGAGAAC GCGGAUCCGA GCAAGCCCUG GCAUAGCUUC CGAGUAGACA	50
GGAGGGAGGG GUGGAUGUGG CGUCUACUCG GUGUCGUGAA GCUUCGCUCU	100
AGAUCUCCCU UUAGUGAGGG UUA	123

(2) INFORMATION FOR SEQUENCE ID NO: 19:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

GGGGGAGAAC GCGGAUCCGG CAAUCCCAGG CGCAUAGCUU CCGAGUAGAC	50
AGGAGGGAGG GGUGGAUGUG GUGUACGAGG AAGCUUCGCU CUAGAUCUCC	100
CUUAGUGAG GGUUA	115

(2) INFORMATION FOR SEQUENCE ID NO: 20:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GGGGGAGAAC GCGGAUCCGA GCAAUCCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGAGGGAG GGGUGGAUGU GGUGUCUGA GAAGCUUCGC UCUAGAUCUC	100
CCUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 21:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 98 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

GGGGGAGAAC GCGGAUCCAA GCUUCGAGUA GACAGGAGGG AGGGGUGGAU	50
GUGGAGUCUC GAGAAGCUUC GCUCUAGAUC UCCCUUAGU GAGGGUUA	98

(2) INFORMATION FOR SEQUENCE ID NO: 22:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 113 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

[[[

(1) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

GGGGGAGAAC GCGGAUCCGA GCAAUCCUAA GCAUAGCUUC GAGUAGACAG	50
GAGGGAGGGG UGGAUGUGGC GUCUCGAGAA GCUUCGCUCU AGAUCUCCCU	100
UUAGUGAGGG UUA	113

(2) INFORMATION FOR SEQUENCE ID NO: 23:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'NH₂ cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GGGGGAGAAC GCGGAUCCGA GCAAUCCCGG GCGCAUAGCU UCCGAGGAGA	50
CAGGCGGGAG GGGUGGAUGU GCGGUCUCGA GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 24:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'NH₂ cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GGGGGAGAAC GCGGAUCCGA GCAAUCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGCGGGAG GGGUGGAUGU GCGGUCUCGA GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 25:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 42 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GCUUCCGAGU AGACAGGAGG GAGGGGUGGA UGUGGCGUCU AC	42
--	----

112

(2) INFORMATION FOR SEQUENCE ID NO: 26:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 43 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

CUUCCGAGUA GACAGGAGGG AGGGGUGGAU GUGGCGUCUA CUC

43

(2) INFORMATION FOR SEQUENCE ID NO: 27:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GGGGGAGAAC GCGGAUCCGG CAACCCAGG CGCAUAGCUU CCGAGUAGAC

50

AGGCCGGGAGG GGUGGAUGUG GCGUCACG

78

(2) INFORMATION FOR SEQUENCE ID NO: 28:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GGGGGAGAAC GCGGAUCCUG AGAAGGACGU CGGGGUCAAC GGGGUGAGGU

50

GCAGCAGAAA GGGCCGGCAC CACAUGACGU AAAAGCUUCG CUCUAGAUCU

100

CCCUUAGUG AGGGUUA

117

(2) INFORMATION FOR SEQUENCE ID NO: 29:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

GGGGGAGAAC GCGGAUCCUG AGAAGGACGU CGGGGUGAGG UGCAGCAGAA

50

AGGGCCGGCA CCACAUGACG UAAAAGCUUC GCUCUAGAUC UCCCUUAGU

100

GAGGGUUA

108

(2) INFORMATION FOR SEQUENCE ID NO: 30:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

GGGGGAGAAC GCGGAUCCGG UGGGAAAGUC GGAUUAUGUG UGUAGAUUUG	50
UGUGCGAAAG CUUCGCUCUA GAUCUCCCUU UAGUGAGGGU UA	92

(2) INFORMATION FOR SEQUENCE ID NO: 31:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 69 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'-NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

GGAGAACGCG GAUCCUGAGA AGGACGUCGG GGUCAACGGG GUGAGGUGCA	50
GCAGAAAGGG CCGGCACCA	69

(2) INFORMATION FOR SEQUENCE ID NO: 32:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU	50
AGGGAAACCU AUGUAUAAGA ACGCGGUCGC AGAAGCUUCG CUCUAGAUCU	100
CCCUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 33:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

114

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU 50
 AGGGAAACCU AUGUAUAAGA ACGCGGUCGC AGA 83

(2) INFORMATION FOR SEQUENCE ID NO: 34:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU 50
 AGGGAAACCU AUUAUAAGAA CGCGGUCGCA GAAGCUCGCG UCUAGAUCUC 100
 CCUUUAGUGA GGGUUA 116

(2) INFORMATION FOR SEQUENCE ID NO: 35:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All C's are 2'-F uracil

(ix) FEATURE:

- (D) OTHER INFORMATION: All U's are 2'-NH₂ cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50
 CCCCUCCAUG CAGGAGGGGG GUGGUUCGGA GAAAGCUUCG CUCUAGAUCU 100
 CCCUUUAGUG AGGGUUA 117

(2) INFORMATION FOR SEQUENCE ID NO: 36:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 81 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All C's are 2'-F uracil

(ix) FEATURE:

- (D) OTHER INFORMATION: All U's are 2'-NH₂ cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50
 CCCCUCCAUG CAGGAGGGGG GUGGUUCGGA G 81

(2) INFORMATION FOR SEQUENCE ID NO: 37:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

115

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'NH, cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CTGCUCCAUG CAGGAGGGGG GUGGUUCGGA GAAAGCTUCG CUCUAGAUCU	100
CCCUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 38:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 115 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'NH, cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CCCCUCCAUG CAGGAGGGGU GGUUCGAGA AAGCUUCGCU CUAGAUCUCC	100
CUUAGUGAG GGUUA	115

(2) INFORMATION FOR SEQUENCE ID NO: 39:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 92 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

GGGGGAGAAC GCGGAUCCGG AAGUCUGGUC UUUGGGGAGU CCGCAUGGCC	50
CUGGCGAAAG CUUCGCUCUA GAUCUCCCUU UAGUGAGGGU UA	92

(2) INFORMATION FOR SEQUENCE ID NO: 40:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 111 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

GGGGGAGAAC GCGGAUCCAA GAAUGUUCGG CCGCAGGAGG UGACAGUGGU	50
GCGGAUACGG ACCGAUUGGG UUUGCCAAGC UUCGCUCUAG AUCUCCCUU	100

116

AGUGAGGGUUA

111

(2) INFORMATION FOR SEQUENCE ID NO: 41:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GGGGGAGAAC GCGGAUCCGG UCACCCGGGC AUUAUACAAU GCCGACACUG 50
 GGGUACCUGG GACGGGUGGG ACUGGACGGA AGAAGCJUCG CUCUAGAUCU 100
 CCCUUUAGUG AGGGUUA 117

(2) INFORMATION FOR SEQUENCE ID NO: 42:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GGGGGAGAAC GCGGAUCCAU AACCGGCTUGC AUGGGAGGGA CAUCCUGGGA 50
 AAGGACGGGU CGAGAUGACC UGAGCAGUUC CGGCAAGCUU CGCUCUAGAU 100
 CUCCUUUAG UGAGGGUUA 119

(2) INFORMATION FOR SEQUENCE ID NO: 43:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

TCGGGCGAGT CGTCTGNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
 NNNNNNCCGC ATCGTCCTCC C 71

(2) INFORMATION FOR SEQUENCE ID NO: 44:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 32 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

TAATACGACT CACTATAGGG AGGACGATGC GG 32

(2) INFORMATION FOR SEQUENCE ID NO: 45:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 16 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

117

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4
TCTGGGAGT CGTCTG

(2) INFORMATION FOR SEQUENCE ID NO: 46:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4
GGGAGGACGA TGCGGNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNN
NNNNNCAGAC GACTCGCCCG A

(2) INFORMATION FOR SEQUENCE ID NO: 47:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4
GGGAGGACGA TGCGG

(2) INFORMATION FOR SEQUENCE ID NO: 48:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 19 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(ix) FEATURE:

(D) OTHER INFORMATION: N at position --

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4
NNNTCGGGCG AGTCGTCTG

(2) INFORMATION FOR SEQUENCE ID NO: 49:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 87 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4
GCCTGTTGTG AGCCTCCTGT CGAANNNNNN NNNNNNNNNN NNNN
NNNNNNNNNN NNNNTTGAGC GTTATTCTT GTCTCCC

(2) INFORMATION FOR SEQUENCE ID NO: 50:

- (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 40 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:
TAATACGACT CACTATAGGG AGACAAGAAAT AAACGCTCAA 40
- (2) INFORMATION FOR SEQUENCE ID NO: 51:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 24 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:
GCCTGTTGTG AGCCTCCTGT CGAA 24
- (2) INFORMATION FOR SEQUENCE ID NO: 52:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 87 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:
GGGAGACAAG AATAAACGCT CAANNNNNNN NNNNNNNNNN NNNNNNNNNN 50
NNNNNNNNNN NNNTTCGACA GGAGGCTCAC AACAGGC 87
- (2) INFORMATION FOR SEQUENCE ID NO: 53:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 23 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:
GGGAGACAAG AATAAACGCT CAA 23
- (2) INFORMATION FOR SEQUENCE ID NO: 54:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 27 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: N at positions 1-3 is biotin
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:
NNNGCCTGTT GTGAGCCTCC TGTCGAA 27
- (2) INFORMATION FOR SEQUENCE ID NO: 55:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

119

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGCT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 56:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAGTGCT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 57:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAGTACT ACTTACTTAC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 58:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTATACTA CTTACTTACG 50
TCTTCAGACG ACTCGCCCGA 70

(2) INFORMATION FOR SEQUENCE ID NO: 59:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGAATACT ACTTACTTAC 50
ATCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 60:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

120

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTAATACT ACTTACTTAC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 61:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTGTT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 62:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTGCT TCTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 63:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 73 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTGTA CTTTTCCTG 50
CGTCTTCAG ACGACTCGCC CGA 73

(2) INFORMATION FOR SEQUENCE ID NO: 64:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTTCG TTTTCTTTG 50
CGGCTTCAGA CGACTCGCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 65:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

121

- (11) MOLECULAR TYPE: DNA
(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 65:
GGGAGGACGA TGCGGCCAGG GGGGGTGTGG GGGTGGTGTA CTTTTCTTG 50
TCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 66:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:
GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTTTG GTATGTTGCC 50
TCCGTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 67:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:
GGGAGGACGA TGCGGCCGGG GTGGGTATGG GGGTAATACT ACTTACTTAC 50
GTCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 68 :
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:
GGGAGGACGA TGCGGCCGGG GGTGGGTAGG GGGGTAGTGC TACTTACTTA 50
CGTCTTCAGAC GACTCGCCC GA 72
- (2) INFORMATION FOR SEQUENCE ID NO: 69:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:
GGGAGGACGA TGCGGCCAGG GTCGGTGTGG GGGTAGTACT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 70:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single

122

(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:
GGGAGGACGA TCGGCCAGG GTGGGTATGG GGGTAGTGCT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 71:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:
GGGAGGACGA TCGGCCCGG GTGGGTATGG GGGTGGTGCT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 72:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:
GGGAGGACGA TCGGCCTGG GTGGGTATGG GGGTGGTGCT ACTTACTTGC 50
GTCTTCAGAC ACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 73:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:
GGGAGGACGA TCGGCCACG GGTGGGTGTG GGGTAGTGTA TCTCACTTTA 50
CATCACCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 74:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:
GGGAGGACGA TCGGCCCGG GGTGGGTGTG GGGTAGTGTA TTATATTTAC 50
AGCCTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 75:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid

123

- (C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:
GGGAGGACGA TCGGCCAGG GTCGGTGTGG GGTGGTGTAC TTTTCCTGT 50
CCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 76:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:
GGGAGGACGA TCGGCCAGG GTCGGTATGG GGTAGTGTAC TTTTAAATGA 50
TCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 77:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:
GGGAGGACGA TCGGCCCGG GGGAGAGCGG TGGGTAGTGT TCTATAGTAT 50
TCGTGTCAGA CGACTCGCCC GA 72
- (2) INFORMATION FOR SEQUENCE ID NO: 78:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:
GGGAGGACGA TCGGCCAGG GGGGGTATGT TTTAATACT ACTTACTTAC 50
GTCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 79:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:
GGGAGGACGA TCGGCCAGG GAGGTATGG GGGTGGTGT TCTAGTTTTG 50
CGGCGTCAGA CGACTCGCCC GA 72
- (2) INFORMATION FOR SEQUENCE ID NO: 80:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs

124

(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:
GGGAGGACGA TCGGCCAGG GTGGGCATGG GGTGGTGTG GATTAATTCT 50
TCSTCCCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 81:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:
GGGAGGACGA TCGGCCAGG GTCGGTGTGG GGTGGTGTGTTT TTATTTACTC 50
GTCGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 82:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:
GGGAGGACGA TCGGGGGGCG GGCTTGAAG AGGTTGCCCG TTGGAGTATT 50
CCAGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 83:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 67 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:
GGGAGGACGA TCGGCCAGG TGTGGGTGG TTTGGGTTTT CTTTCGTCGC 50
CCAGACGACT CGCCCGA 67

(2) INFORMATION FOR SEQUENCE ID NO: 84:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:
GGGAGGACGA TCGGCCAGG GTGGGTATGG GGGTTTAATT AATTCTTCGT 50
CCCACAGACG ACTCGCCCGA 70

(2) INFORMATION FOR SEQUENCE ID NO: 85:
(i) SEQUENCE CHARACTERIZATION:

125

- (A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:
GGGAGGACGA TCGGGGGGGC GGCTTGAAG AGGTTGCCCG TTGGAGTATT 50
CGAGCCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 86:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:
GGGAGGACGA TCGGCCCCGG GGTGGGTGTG GGGTGGTGTG AATTAATTCT 50
TCGTCCACAGA CGACTCGCCC GA 72
- (2) INFORMATION FOR SEQUENCE ID NO: 87:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:
GGGAGGACGA TCGGCCCCGG GGTGGGTGTG GGGTGGTGTG TTATATTTGC 50
GGCCTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 88:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:
GGGAGGACGA TCGGCCCAGG GTCGGTGTGG GTGGTGTACT TTTTCCTGTC 50
CTTCCAGACG ACTCGCCCGA 70
- (2) INFORMATION FOR SEQUENCE ID NO: 89:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:
GGGAGGACGA TCGGGGGGGC GGCTTGAAG AGGTTGCCCG TTGGAGTATT 50
CGAGCCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 90:

126

- (1) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 85 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:
 ATCCGCCTGA TTAGCGATAC TNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
 NNNNNNNNNN NACTTGAGCA AATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 91:
 (1) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 28 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: N at positions 1-3 is biotin
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:
 NNNCCCCTGC AGGTGATTTT GCTCAAGT 28
- (2) INFORMATION FOR SEQ ID NO: 92:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 49 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:
 CCGAAGCTTA ATACGACTCA CTATAGGGAT CCGCCTGATT AGCGATACT 49
- (2) INFORMATION FOR SEQ ID NO: 93:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 84 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:
 ATCCGCCTGA TTAGCGATAC TAGGCTTGAC AAAGGGCACC ATGGCTTAGT 50
 GGTCTAGTA CTTGAGCAAA ATCACCTGCA GGGG 84
- (2) INFORMATION FOR SEQ ID NO: 94:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 85 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:
 ATCCGCCTGA TTAGCGATAC TCAGGGCACT GCAAGCAATT GTGGTCCCAA 50
 TGGGCTGAGT ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 95:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

ATCCGCCTGA TTAGCGATAC TCCAGGCAGT CATGGTCATT GTTTACAGTC 50
GTGGASTAGG TACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 96:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

ATCCGCCTGA TTAGCGATAC TAGGTGATCC CTGCAAAGGC AGGATAACGT 50
CCTGAGCATC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 97:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

ATCCGCCTGA TTAGCGATAC TATGTGATCC CTGCAGAGGG AGGANACGTC 50
TTGAGCATCAC TTGAGCAAAA TCACCTGCAG GGG 83

(2) INFORMATION FOR SEQ ID NO: 98:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

ATCCGCCTGA TTAGCGATAC TCACGTGATC CCATAAGGGC TGCGCAAAAT 50
AGCAGAGCAT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 99:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

ATCCGCCTGA TTAGCGATAC TGGTGGACTA GAGGGCAGCA AACGATCCTT 50
GGTTAGCGTC CACTTGAGCA AAATCACCTG CAGGGG 86

- (2) INFORMATION FOR SEQ ID NO: 100:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:
- ATCCGCCTGA TTAGCGATAC TGGTGCGACG AGGCTTACAC AAACGTACAC 50
GTTTCCCCCGC ACTTGAGCAA AATCACCTGC AGGGG 85
- (2) INFORMATION FOR SEQ ID NO: 101:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:
- ATCCGCCTGA TTAGCGATAC TTGTGCGAGC AGGGGCGTAC GAAACTTTA 50
CAGTTCCCCC GACTTGAGCA AAATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 102:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:
- ATCCGCCTGA TTAGCGATAC TAGTGAACA GGGCACGGAG AGTCAAACCT 50
TGGTTTCCCC CACTTGAGCA AAATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 103:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:
- ATCCGCCTGA TTAGCGATAC TGTGGGTAGG GATCGGTGGA TGCCTCGTCA 50
CTTCTAGTCC CACTTGAGCA AAATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 104:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:
- ATCCGCCTGA TTAGCGATAC TGGGCGCCCT AAACAAAGGG TGGTCACTTC 50

TASTCCCAAG AACTTGAGCA AAATCACCTG CAGGGG

85

(2) INFORMATION FOR SEQ ID NO: 105:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 87 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

ATCCGCCTGA TTAGCGATAC TTCCGGGCTC GGGATTCGTG GTCACCTTCA
GTCCCGGATA TAACTTGAGC AAAATCACCT GCAGGGG

50

87

(2) INFORMATION FOR SEQ ID NO: 106:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 84 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

ATCCGCCTGA TTAGCGATAC TATGGGAGGG CGCGTCTTC GTGGTACTT
TTAGTCCCGA CTTGAGCAAA ATCACCTGCA GGGG

50

84

(2) INFORMATION FOR SEQ ID NO: 107:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 84 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

ATCCGCCTGA TTAGCGATAC TACGGGAGGG CACGTTCTTC GTGGTACTT
TTAGTCCCGA CTTGAGCAAA ATCACCTGCA GGGG

50

84

(2) INFORMATION FOR SEQ ID NO: 108:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

ATCCGCCTGA TTAGCGATAC TGCTCGTAGG GGGCGATTCT TTCGCCGTTA
CTCCAGTCC TACTTGAGCA AAATCACCTG CAGGGG

50

86

(2) INFORMATION FOR SEQ ID NO: 109:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

ATCCGCTGA TTAGCGATAC TGAGGCATGT TAACATGAGC ATCGTCTCAC 50
GATGCTCAGC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 110:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

ATCCGCTGA TTAGCGATAC TCCACAGGCT ACGGCACGTA GAGCATCACC 50
ATGATCCTGT GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 111:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

ATCCGCTGA TTAGCGATAC TGCGGGCATG GCACATGAGC ATCTCTGATC 50
CCGCAATCCT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 112:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

ATCCGCTGA TTAGCGATAC TACCGGGCTA CTTCTAGAG CATCTCTGAT 50
CCCGGTGCTC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 113:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

ATCCGCTGA TTAGCGATAC TAAAGGGCGA ACGTAGGTCG AGGCATCCAT 50
TGGATCCCTT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 114:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

131

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 114:
ATCCGCCTGA TTAGCGATAC TACGGGCTCT GTCAGTGTGG CACTAGCAAT 50
AGTCCCGTCG CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 115:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 115:
ATCCGCCTGA TTAGCGATAC TGGGCAGACC TTCTGGACGA GCATCACCTA 50
TGTGATCCCG ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 116:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 116:
ATCCGCCTGA TTAGCGATAC TAGAGGGGAA GTAGGCTGCC TGACTCGAGA 50
GAGTCTCTCC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 117:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 117:
ATCCGCCTGA TTAGCGATAC TAGGGGTGCG AAACACATAA TCCTCGCGGA 50
TTCCCATCGC TACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 118:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 118:
ATCCGCCTGA TTAGCGATAC TGGGGGGGCA ATGGCGGTAC CTCTGGTCCC 50
CTAAATACAC TTGAGCAAAA TCACCTGCAG GGG 83

(2) INFORMATION FOR SEQ ID NO: 119:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

132

(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:
ATCCGCCTGA TTAGCGATAC TGCGGCTCAA AGTCCTGCTA CCCGCAGCAC 50
ATCTGTGGTC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 120:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:
ATCCGCCTGA TTAGCGATAC TTTGGGCGTG AATGTCCACG GGTACCTCCG 50
GTCCCAAAGA GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 121:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 85 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:
ATCCGCCTGA TTAGCGATAC TTCCGCGCAA GTCCCTGGTA AAGGGCAGCC 50
CTAACTGGTC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 122:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:
ATCCGCCTGA TTAGCGATAC TCAAGTTCCC CACAAGACTG GGGCTGTTCA 50
AACCGCTAGT AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 123:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:
ATCCGCCTGA TTAGCGATAC TCAAGTAGGG CGCGACACAC GTCCGGGCAC 50
CTAAGGTCCC AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 124:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single

133

- (D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:
ATCCGCGCTGA TTAGCGATAC TAAASTCGTG CAGGGTCCCC TGGAAGCATC 50
TCCGATCCCC GACTTGAGCA AAATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 125:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 96 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:
GGGAGACAAG AAUAACGCUC AANNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
NNNNNNNNNN NNNNNNNNNN NNNUCGACAG GAGGCUCACA ACAGGC 96
- (2) INFORMATION FOR SEQ ID NO: 126:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 39 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:
TAATACGACT CACTATAGGG AGACAAGAAT AACGCTCAA 39
- (2) INFORMATION FOR SEQ ID NO: 127:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 24 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:
GCCTGTTGTG AGCCTCTGT CGAA 24
- (2) INFORMATION FOR SEQ ID NO: 128:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 93 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:
GGGAGACAAG AAUAACGCUC AACGGUGGCA UUUCUUCACU UCCUUCUCGC 50
UUUCUCGCGU UGGGCNCGAU UCGACAGGAG GCUCACAACA GGC 93
- (2) INFORMATION FOR SEQ ID NO: 129:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 91 base pairs
(B) TYPE: nucleic acid

134

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:
GGGAGACAAG AAUAACGCUC AACCAACCUU CUGUCGGCGU UGCUUUUUGG 50
ACGGCACUCA GGCUCCAUUC GACAGGAGGC UCACAACAGG C 91

(2) INFORMATION FOR SEQ ID NO:130:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 95 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:130::
GGGAGACAAG AAUAACGCUC AAUCGAUCGG UUGUGUGCCG GACAGCCUUA 50
ACCAGGGCUG GGACCGAGGC CUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 131:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 92 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:
GGGAGACAAG AAUAACGCUC AACUGAGUAG GGGAGGAAGU UGAUAUCAGUU 50
GUGGCGCCUC UCAUUCGCUU CGACAGGAGG CUCACAACAG GC 92

(2) INFORMATION FOR SEQ ID NO: 132:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 95 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:
GGGAGACAAG AAUAACGCUC AACAGCACUU UCGCUUUUCA UCAUUUUUUC 50
UUUCCACUGU UGGGCGCGGA AUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 133:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 96 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(1) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:
GGGAGACAAG AAUAACGCUC AAUCAGUGCU GGCGUCAUGU CUCGAUGGGG 50
AUUUUCUUC AGCACUUUGC CAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 134:

(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 96 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:
GGGAGACAAG AAUAACGCUC AAUCUACUUU CCAUUUCUCU UUUCUUCUCA 50
CGACCGGGUU UCCAGUGAAC CAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 135:

(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 94 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:
GGGAGACAAG AAUAACGCUC AACGAUAGUG ACUACGAUGA CGAAGGCCGC 50
GGGUUGGAUG CCCGCAUUGA UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 136:

(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 93 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:
GGGAGACAAG AAUAACGCUC AAGUCGAUAC UGGCGACUUG CUCCAUGGC 50
CGAUUAACGA UUCGGUCAGU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 137:

(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 95 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:
GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50
UUCGAUCGAC UUUCCUUUCC AUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 138:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:
GGGAGACAAG AAUAACGCUC AAUUAUCCGG UUCGGAUUAU UCCUGUCUC 50
GGAAAUCCGU AGCCAUAGUG CAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:
GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGAUGG 50
UUGGAUAGGC UCUACGCUCA UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 140:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:
GGGAGACAAG AAUAACGCUC AAGCGAAACU GCGGACUUGC UCCAUUGGCC 50
GAUUAUACGA UUCGGUUCAU UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 141:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

GGGAGACAAG AAUAACGCUC AAGGACGAG GAGGGAGUCG CAAGGGAUGG 50
 UUGGAUAGGC UCUACGCUCA AUUCGACAGG AGGUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 142:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 94 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

GGGAGACAAG AAUAACGCUC AACGAGAAGU GACUACGAG ACGAAGGCCG 50
 CCGGUGGAU CCCUCAUGA UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 143:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 95 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

GGGAGACAAG AAUAACGCUC AAAAGCAACG AGACCUGACG CCUGAUGUGA 50
 CUGUGCUUGC ACCCGAUUCU GUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 144:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 96 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

GGGAGACAAG AAUAACGCUC AAGUGAUUCU CAUUCUCAU GCUUUCUCAC 50
 AACUUUUCC ACUUCAGCGU GAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 145:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 94 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

GGGAGACAAG AAUAACGCUC AAAAGCAACG AGACUCGACG CCUGAUGUGA 50
 CUGUGCUUGC ACCCGAUUCU UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 146:

(1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

GGGAGACAAG AAUAACGCUC AAUCGAUCGG UUGUGUGCCG GACAGCUUUG	50
ACCAUGAGCU GGGACCGAGG CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 147:

(1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

GGGAGACAAG AAUAACGCUC AANGACNGU GGACCUGACU AAUCGACUGA	50
UCAAGAUGC CGCCAGAUG GGUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 148:

(1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

GGGAGACAAG AAUAACGCUC AACACUGCGA CUUGCAGAAG CCUUGUGUGG	50
CGGUACCCCC UUUGGCCUCG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 149:

(1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

GGGAGACAAG AAUAACGCUC AAGGUGGCAU UUCUUAUUU UCCUUCUCGC	50
UUUCUCCGCC GUUGGGCGCG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 150:

- 1 SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 96 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:
 GGGAGACAAG AAUAACGCUC AACCUGAGUA GGGGGGAAAG UGAAUUCAGU 50
 UGUGGGCGCUC UACUCAUUCG CCUUCGACAG GAGGCUCACA ACAGGC 96
- (2) INFORMATION FOR SEQ ID NO: 151:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 94 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:
 GGGAGACAAG AAUAACGCUC AAGUCGAAAC UGGCGACUUG CUCCAUUGGC 50
 CGAUUAACG AUUCGGUUCU UUCGACAGGA GGCUCACAAC AGGC 94
- (2) INFORMATION FOR SEQ ID NO: 152:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 94 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:
 GGGAGACAAG AAUAACGCUC AAGCGAUACU GGCGACUUGC UCCAUUGGCC 50
 GAUAUAACGA UUCGGCUCAG UUCGACAGGA GGCUCACAAC AGGC 94
- (2) INFORMATION FOR SEQ ID NO: 153:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 96 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:
 GGGAGACAAG AAUAACGCUC AAACGUGGGG CACAGGACCG AGAGUCCUC 50
 CGGCAUAGC CGCUACCCCA CCUUCGACAG GAGGCUCACA ACAGGC 96
- (2) INFORMATION FOR SEQ ID NO: 154:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 98 base pairs

140

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:
 GGGAGACAAG AAUAACGCUC AACACAGCCU NANAGGGGGG AAGUUGAAUC 50
 AGUUGUGGCG CUCUACUCAU UCGCUUCGAC AGGAGGCUCA CAACAGGC 98

(2) INFORMATION FOR SEQ ID NO: 155:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 94 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:
 GGGAGACAAG AAUAACGCUC AAANGGGNUA UGGUGACTUG CUCCAUGGC 50
 CGAUUAACG AUUCGGUCAG UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 156:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 96 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:
 GGGAGACAAG AAUAACGCUC AACCGCGUA GGGNGGGAAG UUGAAUCAGU 50
 UGUGGCGCUC UACUCAUUCG CCUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 157:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 94 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:
 GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGAUGG 50
 UUGGAUAGGC UCUACGCUCA UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 158:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 97 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

141

- (D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:
GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50
UUUGAUUCGC UUCCNCAUU CCAJUCGACA GGAGGCUCAC AACAGGC 97
- (2) INFORMATION FOR SEQ ID NO: 159:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 93 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:
GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGACGG 50
UNNAUAGGCU CUACGCUCAU UCGACAGGAG GCUCACAACA GGC 93
- (2) INFORMATION FOR SEQ ID NO: 160:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 93 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:
GGGAGACAAG AAUAACGCUC AAUCGGUGUG GCUCAGAAAC UGACACGCGU 50
GAGCUUCGCA CACAUCUGCU UCGACAGGAG GCUCACAACA GGC 93
- (2) INFORMATION FOR SEQ ID NO: 161:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 95 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:
GGGAGACAAG AAUAACGCUC AAUAUCGCUU UUCAUCAAU CCACUUUUUC 50
ACUCUNUAAC UUGGGCGUGC AUUCGACAGG AGGCUCACAA CAGGC 95
- (2) INFORMATION FOR SEQ ID NO: 162:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 96 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA

142

(ix) FEATURE
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:
GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50
UUCGAUCCUG CAUCCUUUUU CCUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 163:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 93 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:
GGGAGACAAG AAUAACGCUC AAUCGNUCGG UUGUGUGCCG GCAGCUUUGU 50
CCAGCGUUGG GCCGAGGCCU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 164:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 95 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:
GGGAGACAAG AAUAACGCUC AAAGUACCCA UCUCAUCUUU UCCUUUCCUU 50
UCUUCAAGGC ACAUUGAGGG UUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 165:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 97 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:
GGGAGACAAG AAUAACGCUC AACCUGAGUA GGGGGGGAAG UUGAACCAGU 50
UGUGGCNGCC UACUCAUUCN CCAUUCGACA GGAGGCUCAC AACAGGC 97

(2) INFORMATION FOR SEQ ID NO: 166:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 94 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 166:
 GGGAGACAAG AAUAACGCUC AACCNCCUN CUGUCGGCGC UUGUCUUUUU 50
 GGACGGGCAA CCCAGGGCUC UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 167:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 96 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:
 GGGAGACAAG AAUAACGCUC AACCAACCUN CUGUCGGCGC UUGUCUUUUU 50
 GGACGAGCAA CUCAAGGCUC GUUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 168:
 (1) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 93 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:
 GGGAGACAAG AAUAACGCUC AACCAAGCA GAUCCCGGC UGAAGUGACU 50
 GCCGCAACG GCCGCUCCAU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 169:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 96 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:
 GGGAGACAAG AAUAACGCUC AAUCCCGUA ACAACUUUC AUUUUCACUU 50
 UUCAUCCAAC CAGUGAGCAG CAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 170:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 96 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:
 GGGAGACAAG AAUAACGCUC AAUAUCGUU UCAUCAAAU CCACUCCUUC 50

144

ACUUCUUUAA CUUGGGCGUG CAUUCGACAG GAGGCUUACA ACAGGC

96

(2) INFORMATION FOR SEQ ID NO: 171:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(ix) FEATURE:

- (D) OTHER INFORMATION: N at positions 1 and 23 base pair to each other and can be 1-4 base pairs long.

(ix) FEATURE:

- (D) OTHER INFORMATION: N at positions 5 and 10 is any base pair.

(ix) FEATURE:

- (D) OTHER INFORMATION: N at positions 6 and 9 is any base pair.

(ix) FEATURE:

- (D) OTHER INFORMATION: N at positions 7 and 8 is any base pair.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

NGGCNNNNNN GRKYAYYRRT CCN

23

(2) INFORMATION FOR SEQ ID NO: 172:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 38 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(ix) FEATURE:

- (D) OTHER INFORMATION: Nucleotide 38 is an inverted orientation T (3'-3' linked)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:

TGGGAGGGCG CGTTCTTCGT GGTACTTTT AGTCCCGT

38

(2) INFORMATION FOR SEQ ID NO: 173:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 40 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(ix) FEATURE:

- (D) OTHER INFORMATION: Nucleotide 40 is an inverted orientation T (3'-3' linked)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:

CACAGGCTAC GGCACGTAGA GCATCACCAT GATCCTGTGT

40

(2) INFORMATION FOR SEQ ID NO: 174:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 45 base pairs

145

(E) TYPE: nucleic acid
 (F) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: Nucleotide 45 is an
 inverted orientation T (3'-3' linked)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:
 TACTCAGGC ACTGCAAGCA ATTGTGGTCC CAATGGGCTG AGTAT

45

(2) INFORMATION FOR SEQ ID NO: 175:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 36 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: C at positions 8, 11,
 25 and 26 is 2'-O-methyl-2'-deoxycytidine.
 (ix) FEATURE:
 (D) OTHER INFORMATION: G at positions 9, 10,
 17, 19 and 35 is 2'-O-methyl-2'-deoxyguanosine.
 (ix) FEATURE:
 (D) OTHER INFORMATION: A at positions 12, 24
 and 27 is 2'-O-methyl-2'-deoxyadenosine.
 (ix) FEATURE:
 (D) OTHER INFORMATION: U at position 34 is
 2'-O-methyl-2'-deoxyuridine.
 (ix) FEATURE:
 (D) OTHER INFORMATION: U at positions 6 and 22 is
 2'-fluoro-2'-deoxyuridine.
 (ix) FEATURE:
 (D) OTHER INFORMATION: C at positions 23, 32 and
 33 is 2'-fluoro-2'-deoxycytidine.
 (ix) FEATURE:
 (D) OTHER INFORMATION: Nucleotide 36 is an
 inverted orientation T (3'-3' linked).
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:
 CAGGCUACGG CACGTAGAGC AUCACCATGA TCCUGT

36

(2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 32 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: C at position 8 is 2'-
 O-methyl-2'-deoxycytidine.
 (ix) FEATURE:
 (D) OTHER INFORMATION: G at positions 9, 17
 and 31 is 2'-O-methyl-2'-deoxyguanosine.

146

- (1x) FEATURE:
(D) OTHER INFORMATION: A at position 22 is 2'-O-methyl-2'-deoxyadenine.
- (1x) FEATURE:
(D) OTHER INFORMATION: U at position 30 is 2'-O-methyl-2'-deoxyuridine.
- (1x) FEATURE:
(D) OTHER INFORMATION: U at positions 6 and 20 is 2'-fluoro-2'-deoxyuridine.
- (1x) FEATURE:
(D) OTHER INFORMATION: C at positions 21, 28 and 29 is 2'-fluoro-2'-deoxycytidine.
- (1x) FEATURE:
(D) OTHER INFORMATION: N at positions 10 and 23 is pentaethylene glycol phosphoramidite spacer.
- (1x) FEATURE:
(D) OTHER INFORMATION: Nucleotide 32 is an inverted orientation T (3'-3' linked)
- (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 176:
CAGGCUACGN CGTAGAGCAU CANTGATCCU GT 32
- (2) INFORMATION FOR SEQ ID NO: 177:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 39 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: Nucleotide 39 is an inverted orientation T (3'-3' linked)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:
CAGTCCGTGG TAGGGCAGGT TGGGGTGACT TCGTGGAAT 39
- (2) INFORMATION FOR SEQ ID NO: 178:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at positions 13, 14, 16 and 17 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:
TGGGAGGGCG CGTTCCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 179:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

147

- (ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at position 20 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 180:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at position 23 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 181:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at position 24 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 182:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at position 27 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 183:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at positions 28-30 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37

148

(2) INFORMATION FOR SEQ ID NO: 184:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 37 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(ix) FEATURE:

- (D) OTHER INFORMATION: T at position 33 is substituted with IdU.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCCG

37

(2) INFORMATION FOR SEQ ID NO: 185:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 7 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: Peptide

(ix) FEATURE:

- (D) OTHER INFORMATION: Xaa at position 5 is a modified amino acid that could not be identified.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

Lys Lys Pro Ile Xaa Lys Lys

5

(2) INFORMATION FOR SEQ ID NO: 186:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

GGGAGGACGA UGCGGNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

50

NNNNNCAGAC GACUCGCCCG A

71

(2) INFORMATION FOR SEQ ID NO: 187:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 32 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

TAATACGACT CACTATAGGG AGGACGATGC GG

32

(2) INFORMATION FOR SEQ ID NO: 188:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 16 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(11) MOLECULAR TYPE: RNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:
TCGSGCGAGT CGTCTG

16

(2) INFORMATION FOR SEQ ID NO: 189:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

GGGAGGACGA UGCGGGAAGG GACGAUAAAG AGGAAUCGAA CAACAAGUGG
CUGGCCAGAC GACUCGCCCG A

50

71

(2) INFORMATION FOR SEQ ID NO: 190:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:

GGGAGGACGA UGCGGGCGGG AAGGUCCGAA GACCGGCGAA AGGAACGAGA
UUGCCCAGAC GACUCGCCCG A

50

71

(2) INFORMATION FOR SEQ ID NO: 191:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:

GGGAGGACGA UGCGGGUGGU GAAGAGGUAC CGGAAUUGCU AAAGAUACCA
GGCCCAGACG ACUCGCCCGA

50

70

(2) INFORMATION FOR SEQ ID NO: 192:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:

GGGAGGACGA UGCGGGCAGG GAGCAAUGAA CUCAAGUCAA GCCGGUGCAC

50

GUGGGCAGAC GACUCGCCCCG A

71

(1) INFORMATION FOR SEQ ID NO:193:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

GGGAGGACGA UGCGGUAGCU GCUGUCAUGC AAGACACUAG AAGAUUAAGA 50

UGGGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO:194:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 74 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:

GGGAGGACGA UGCGGGGGCC GGAUUUGAAC CGACGACUUC GGGUUAUGAG 50

CCCGACGUCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 195:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:

GGGAGGACGA UGCGGUCCAG GGAUUGAAGU GUCGGGUUAG GAACAUAAAG 50

GCGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 196:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

GGGAGGACGA UGCGGAAGUU CUAACAAGUU AGUGGAAGGU UCCACUUGAA 50

UGUACAGACG ACUCGCCCCG A 70

151

(1) INFORMATION FOR SEQ ID NO: 197:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:

GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

(2) INFORMATION FOR SEQ ID NO: 198:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:

GGGAGGACGA UGCGGGUGGG AAGAUGAGCC GGUCGGCAGU AAUGUGACAC 50
UGCGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 199:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

GGGAGGACGA UGCGGGAGGG AAUGAGGAAA CAACUAGCAG AUAACCGAGC 50
UGGCCAGACG ACUCGCCCCG A 70

(2) INFORMATION FOR SEQ ID NO: 200:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

(2) INFORMATION FOR SEQ ID NO: 201:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid

152

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:
GGGAGGACGA UGCGGUUGCU CUACAAUGAC GCGGUGACUC CGCAGUUCUU 50
GGACACAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 202:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:
GGGAGGACGA UGCGGGAGGG GAGAAGAAUG CAGGAAACAG CGAAAUGCGU 50
GUGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 203:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:
GGGAGGACGA UGCGGGCGGG AAGAGCUAAU GGAAGUGGAA UCAGUCACAG 50
UGCGGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 204:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 57 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:
GGGAGGACGA UGCGGGCUUA GGGAAAUGGU UCUGAGGUGG UCAGACGACU 50
CGCCCCGA 57

(2) INFORMATION FOR SEQ ID NO: 205:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

- (1) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:
 GGGAGGACGA UGCGGGAAGG GAACAGGAUA AGACAAGUCG AACAAAGCCG 50
 AGGUGCAGAC GACUCGCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 206:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 44 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:
 GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44
- (2) INFORMATION FOR SEQ ID NO: 207:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:
 GGGAGGACGA UGCGGGGAGA CGUAGACGGG AACAUAGAAC GAACAUCAAC 50
 GCGGCCAGAC GACUCGCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 208:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:
 GGGAGGACGA UGCGGGAAGU GGAUAGAACA GUCAGAAAUG UAAGCGUGAG 50
 GUGCAGACGA CUCGCCCGA 69
- (2) INFORMATION FOR SEQ ID NO: 209:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

154

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:
GGSAGGACGA UGCGGGAAGG GUAGGAAGGU CAAGAGGAAA CAGCGCUUCG 50
GGGUGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 210:
(1) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:
GGGAGGACGA UGCGGGGCAA AGGAAGUUGG AAUCGGGACU AAGUAGUGUG 50
UGGCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 211:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:
GGGAGGACGA UGCGGAGAAC CAACAGAGCC CCCUGGUGGU GGGGGAAGGA 50
UUCUCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 212:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:
GGGAGGACGA UGCGGACACA CAAGUGAAGG UCAGACGCGA AUUACGUGGG 50
UGGGCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 213:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 82 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:
GGGAGGACGA UGCGGUCGUG GGGUGGGUGG GGGCAGCGUU GGAAUAAGUA 50

155

ACUGGUAACG GCUGGCCAGA CGACUCGCCC GA

52

(2) INFORMATION FOR SEQ ID NO: 214:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:

GGGAGGACGA UGCGGGGUGG GUGGUUACCU GUAAUUUAU UGAUUCUGGC

50

UUUAGCAGAC GACUCGCCCC G A

71

(2) INFORMATION FOR SEQ ID NO: 215:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 53 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

GGGAGGACGA UGCGGCCCCU UAGCUCAGUG GUUAGAGCAG ACGACUCGCC

50

CGA

53

(2) INFORMATION FOR SEQ ID NO: 216:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 74 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:

GGGAGGACGA UGCGGUAACG UGGAAUAGGG UUAACAGCU GGAAAUACG

50

UAGGUGGCCA GACGACUCGC CCGA

74

(2) INFORMATION FOR SEQ ID NO: 217:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

GGGAGGACGA UGCGGGUAGG GAGUAGGACA GACAUACAG UGCAACCAUC

50

GUGGCCAGAC GACUCGCCCC G A

71

156

(2) INFORMATION FOR SEQ ID NO: 218:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 73 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

GGGAGGACGA UGCGGAAACG GCGUGGCCAAA AGUGAGGGGG UAGGAUGUAC 50
CAUGGGUCAG ACGACUCGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 219:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

GGGAGGACGA UGCGGGAGGG GAAAUGAGA CCGACAGAUU GACGGAAGUA 50
CUGGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 220:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:

GGGAGGACGA UGCGGGCAUU CGUCAUACC UUGUUUUUUU CCUUUUCUAG 50
CGGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 221:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:

GGGAGGACGA UGCGGAUCGU AAUCGCCACU ACUACUUCC GAACCCGCAC 50
GUGGCCAGAC GACUCGCCCCG A 71

157

(2) INFORMATION FOR SEQ ID NO: 222:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

GGGAGGACGA UGCGGCGUCC CGAGUCACGC UGUCCUGAUA ACCUUCUCUG 50
UGCCCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 223:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

GGGAGGACGA UGCGGGAUCC UUUGUGGGCU CUUGUUGACC CCCUCGUUGU 50
CCCCCCCAGA CGACUCGCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 224:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:

GGGAGGACGA UGCGGCGGGU ACUCUUCGCC AGCUCCUCCA AGCGCGACCU 50
GUGCCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 225:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:

GGGAGGACGA UGCGGUUUCG AAUAGGGCCA UUUCUCACUA GCUAUCCUAC 50

CCUCCGAGAC GACUCGCCCC GA

72

(2) INFORMATION FOR SEQ ID NO: 226:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:

GGGAGGACGA UGCGGAUAAU GGCUGAAGAU AGCUCGCAUC UUGGUGUCCG 50
GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 227:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:

GGGAGGACGA UGCGGGACCA GAUGGCGGAU UUUUCAGCAA UCCUCCCCCG 50
CUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 228:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

GGGAGGACGA UGCGGUGAUG GCGACCAGUC AAACCGGUGC UUUUACUCCC 50
CCGCCAGACG ACUCGCCCCG A 70

(2) INFORMATION FOR SEQ ID NO: 229:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

- xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:
GGGAGGACGA UGCGGSAUU AACAGGGCCA GAAUUCUUAU CUNUCUCCCC 50
GUGAGCCAGA CGACUCGCCC GA 72
- (2) INFORMATION FOR SEQ ID NO: 230:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:
GGGAGGACGA UGCGGCACCU UAGACCUGUC CUCCAAGCGU GAGUUGCUGU 50
GGCCCAGACG ACUCGCCCCA 70
- (2) INFORMATION FOR SEQ ID NO: 231:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUUAUCU 50
GGGCCAGACG ACUCGCCCCA 70
- (2) INFORMATION FOR SEQ ID NO: 232:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:
GGGAGGACGA UGCGGUCAUG GUGUCUUUCC ACAGCUCUUC CCAUGAUCGC 50
CCGGCCAGAC GACUCGCCCC A 71
- (2) INFORMATION FOR SEQ ID NO: 233:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:

GGGAGGACGA UGCGGGAAUU CCCAGCGCUU GACUGAUACA AACNUUCCCG 50
UGCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO:234:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

GGGAGGACGA UGCGGCAANN NNNNCUCUC UCCUGGCGUU CCGCAACCCG 50
CCCCCAGACG ACUCGCCCCG A 70

(2) INFORMATION FOR SEQ ID NO: 235:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:

GGGAGGACGA UGCGGAGUAU UCCAGCCUGG AUUCAUAGUC AGUGCUCUCC 50
GUGCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 236:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:

GGGAGGACGA UGCGGUCCUA GCAGCGAUUC AUCCCCGUUC UCUCAGCGUU 50
CCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 237:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

161

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:

GGGAGGACGA UGCGGCCUGA AGUACAGGCU CUAACUCCA AGCGCGACCG 50
UCCGCCAGAC GACUGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 238:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 68 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:

GGGAGGACGA UGCGGCCCUA CCACUUUUUC CCUCUACUGU UAUCUGUCC 50
CCCAGACGAC UGCCCCGA 68

(2) INFORMATION FOR SEQ ID NO: 239:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

GGGAGGACGA UGCGGUGGUC UCCUAGAUC UACAGCACUU CCAUCGCAUU 50
GGGCCAGACG ACUGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 240:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 69 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

GGGAGGACGA UGCGGUCAAG CUUACAGUC UGGCAAUGGC CAUUAUGGCG 50
CCCCAGACGA CUCGCCCGA 69

(2) INFORMATION FOR SEQ ID NO: 241:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 72 base pairs

(B) TYPE: nucleic acid

162

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:

GGGAGGACGA UGCGGCAGUC UGGAUCUCUA UUGGAAUUUA GUCCUCAACU 50
GUGCCCCAGA CGACUCGCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 242:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:

GGGAGGACGA UGCGGGAUUC UUUCGGCAAG UGAAAAUAU CCUUGCUUCC 50
CGAGCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 243:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:

GGGAGGACGA UGCGGGGACU UCAACUAAGU CCUCAUUUGC CUCGCUCCUC 50
GUGCCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 244:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 74 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:

GGGAGGACGA UGCGGAACGG AGAUGUCCCC UCAAMAUUUA CCGUCUCCGU 50
UUGCGCCCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 245:

(i) SEQUENCE CHARACTERIZATION:

103

(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:
GGGAGGACGA UGCGGCGAAA UUAGCUUCU AUGACUCACG UUCCUUGCC 50
GCCCCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 246:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:
GGGAGGACGA UGCGGGCCCG AUCUACUGCA UUACCGAAAC GAUUUCCCCA 50
CUGUGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 247:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:
GGGAGGACGA UGCGGNGACU GAUUUUUCCU UGNCAGUGUA AUUUCUGGC 50
UGCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 248:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:
GGGAGGACGA UGCGGGGACU UUGACAGGCA UGAUUUCCA CCUGUCCCC 50
GUGGCCAGAC GACUCGCCCG A 71

165

UGGCCCAGAC GACUCGCCCC A

71

(1) INFORMATION FOR SEQ ID NO: 253:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:

GGGAGGACGA UGCGGGGACU UUGACAGGCA UUGAUUUCGA CGUGUCCCC 50
 GUGGCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 254:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 69 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:

GGGAGGACGA UGCGGUGAUC AAUCGGCGCU UUACUCUUGC GCUCACCGUG 50
 CCCAGACGA CUCGCCCGA 69

(2) INFORMATION FOR SEQ ID NO: 255:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:

GGGAGGACGA UGCGGCAGUC UCCCUAGGUU UCAUCUCUGC AGCAUCCGG 50
 GGUNCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 256:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:

GGGAGGACGA UGCGGAUCAA AAGCACUCAU UCCCGUGCUC GCUUCAUUGG 50
UCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 257:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 74 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:

GGGAGGACGA UGCGGAAGAU CUCCCAACUG CUGUGGCUAA UAAUUCUCUC 50
CGCGUCCCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 258:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:

GGGAGGACGA UGCGGUCCGU CAUAACGGCC AUAACUGCG AAUACUCCCU 50
GGCCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 259:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 73 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:

GGGAGGACGA UGCGGGGACA AWYAGCGGUG UCUUUUCAUU UNKAUCCUCC 50
GACRUCCCAG ACGACUGGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 260:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

167

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:

GGGAGGACGA UGCGGUGACU AUCUGGCUCG AUCCAAUCAC CCGAGCCCAC 50
 CGCGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 261:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:

GGGAGGACGA UGCGGGAACU AAUGGCCGUG AUUAACCAU GCAGGCUUCC 50
 UGCGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 262:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 73 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:

GGGAGGACGA UGCGGUGACA UGGAAUUUUC UACGGGCCCG AUCCUGCCAG 50
 CCGUGUGCAG ACGACUGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 263:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 13 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:

GGAANYAANR CRR 13

(2) INFORMATION FOR SEQ ID NO: 264:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 9 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

168

(1) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:

GGAAATTGA

9

(2) INFORMATION FOR SEQ ID NO: 265:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 76 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'-NH₂, 2 cytosine

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-NH₂, 2 uracil

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

GGGAGACAAG AAUAACGCUC AAGUAGACUA AUGUGUGGAA GACAGCGGGU

50

GGUUCGACAG GAGGCUCACA ACAGGC

76

(2) INFORMATION FOR SEQ ID NO: 266:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'-NH₂, 2 cytosine

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-NH₂, 2 uracil

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:

GGUGUGUGGA AGACAGCGGG UGUUC

26

(2) INFORMATION FOR SEQ ID NO: 267:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 35 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All U's and C's are 2'-deoxy-2'-aminouridine and 2'-deoxy-2'-aminocytidine residues

(ix) FEATURE:

(D) OTHER INFORMATION: A at positions 14 and 17 is 2'-deoxy-2'-O-methyladenosine

(ix) FEATURE:

(D) OTHER INFORMATION: G at positions 5, 6, 22, 23, 24, 26 and 27 is 2'-deoxy-2'-O-methylguanosine

(ix) FEATURE:

169

(D) OTHER INFORMATION: T at positions 1-4 and 31-35 is 2'-deoxythymidine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 267:
TTTTTGGUG UGGAAGACAG CCGGUGGUUC TTTT

35

(2) INFORMATION FOR SEQ ID NO: 268:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 27 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:
GGGAGSGSG GUYUCYRRY UYYYSYS

27

(2) INFORMATION FOR SEQ ID NO: 269:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:
RGGPRGRAYY RSERSYYYYY BSYBSY

26

(2) INFORMATION FOR SEQ ID NO: 270:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 21 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:
GGGAAGGAAY AARCRRGACC C

21

(2) INFORMATION FOR SEQ ID NO: 271:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 11 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:
GGAAYGAYGA Y

11

170

- (1) INFORMATION FOR SEQ ID NO: 272:
(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 49 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUAUC 49
- (2) INFORMATION FOR SEQ ID NO: 273:
(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 47 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUA 47
- (2) INFORMATION FOR SEQ ID NO: 274:
(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 45 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:
GGGAGGACUG CGGUGGUCUC CCAAUUCUAA ACUUUCUCCA UCGUA 45
- (2) INFORMATION FOR SEQ ID NO: 275:
(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 45 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:
GGGAGGACGA UGCGGUGGUC UCCCCUAAAC UUUCUCCAUC GUAUC 45
- (2) INFORMATION FOR SEQ ID NO: 276:
(i) SEQUENCE CHARACTERIZATION:

171

- (A) LENGTH: 45 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUUCUCCAUC GUAUC 45
- (2) INFORMATION FOR SEQ ID NO: 277:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 45 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUCCAUC GUAUC 45
- (2) INFORMATION FOR SEQ ID NO: 278:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 42 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUAU CUCCAUCGUA UC 42
- (2) INFORMATION FOR SEQ ID NO: 279:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 47 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:
 GAGGACGAUG CGGUGGUCUC CCAAUUCUAA ACUUUCUCCA UCGUAUC 47
- (2) INFORMATION FOR SEQ ID NO: 280:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 42 base pairs
 (B) TYPE: nucleic acid

172

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(11) MOLECULAR TYPE: RNA
(1x) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:
GGGAGGACGA UGCGGUGGUC UCCCAAUUUU CUCCAUCGUA UC 42

(2) INFORMATION FOR SEQ ID NO: 281:
(1) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 41 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(1x) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 281:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU ACCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 282:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 44 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(1x) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 282:
GGAGGACGAU GCGGUGGUCU CCCAAUUCUA UUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 283:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 43 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(1x) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 283:
GGAGGACGAU GCGGUGGUCU CCAAUUCUAU UCUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 284:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 43 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

173

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 284:

GAGGACGAUG CGGUGGUCUC CCAAUUCUAU UCUCCAUCGU AUC

43

(2) INFORMATION FOR SEQ ID NO: 285:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 41 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 285:

GAGGACGAUG CGGUGGUCUC AAUUCUAUUC UC CAUCGU AU C

41

(2) INFORMATION FOR SEQ ID NO: 286:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 44 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 286:

GGGAGGCGAU GCGGUGGUCU CCAAUUCUA UUCUCCAUCG UAUC

44

(2) INFORMATION FOR SEQ ID NO: 287:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 44 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 287:

GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUCUCCAUCG UAUC

44

(2) INFORMATION FOR SEQ ID NO: 288:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 43 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

174

(2) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 288:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU ACUCCAUCGU AUC

43

(2) INFORMATION FOR SEQ ID NO: 289:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 42 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 289:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUCCAUCGUA UC

42

(2) INFORMATION FOR SEQ ID NO: 290:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 290:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU UUCUCCAUCG UAUC

44

(2) INFORMATION FOR SEQ ID NO: 291:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 43 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 291:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU UCUCCAUCGU AUC

43

(2) INFORMATION FOR SEQ ID NO: 292:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 41 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

175

(1) SEQUENCE DESCRIPTION: SEQ ID NO: 292:
GGGGAGTAUG CGGUGGCCCC AAUUCUAUUC UCCAUCGUUU C

41

(2) INFORMATION FOR SEQ ID NO: 293:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 39 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 293:
GGGACGAUGC GGUGGCCCAA UUCUAUUCUC CAUCGUUUC

39

(2) INFORMATION FOR SEQ ID NO: 294:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 37 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 294:
GACGAUGCGG UGGCCCAAUU CUAUUCUCCA UCGUAUC

37

(2) INFORMATION FOR SEQ ID NO: 295:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 38 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 295:
GGACGAUGCG GUGGCCCAAU UCUAUUCUCC AUCGUUUC

38

(2) INFORMATION FOR SEQ ID NO: 296:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 34 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 296:
GAUGCGGUGG CCCAAUUCUA UUCUCCAUCG UAUC

34

176

- (2) INFORMATION FOR SEQ ID NO: 297:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 37 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
 modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 297:
GAUGCGGUGG UCUCCTAAU CUAUUCUCCA UCGUAUC 37
- (2) INFORMATION FOR SEQ ID NO: 298:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 32 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
 modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 298:
GGUGGUCUCC CAAUUCUAAU CUCCAUCGUA UC 32
- (2) INFORMATION FOR SEQ ID NO: 299:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 12 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
 modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 299:
GGGAGGACGA UG 12
- (2) INFORMATION FOR SEQ ID NO: 300:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 42 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
 modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 300:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU CUCCAUCGUA UC 42
- (2) INFORMATION FOR SEQ ID NO: 301:
 (i) SEQUENCE CHARACTERIZATION:

177

(A) LENGTH: 41 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 301:
GGGAGGACGA UGCGGUGUCU CCCAAUUCUU CUCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 302:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 41 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 302:
GGGAGGACGA UGCGGGGUCU CCCAAUUCUU CUCCUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 303:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 39 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 303:
GGGAGGACGA UGCGGGUCUC CCAAUUCUUC UCUCGUUAUC 39

(2) INFORMATION FOR SEQ ID NO: 304:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 43 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)
modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 304:
GGGAGUACGA UGCGGUGGUC UCCCAAUUCU UCUCCAUCGU AUC 43